

THE SCOPE

To exemplify afterlife, God created Eve.

— Editor

Articles by

WILLIAM SMITH, Opt. D.

HENRY FINE

J. E. QUINN and P. N. GATES

A. VEANER and R. LIPPIN

R. SAUL and A. JOSEPHSON

SID NEWMAN

HERBERT IVENTASH

MARSHAL V. MARGOLSKEE

JANET MECHANIC

December 1941

Digitized by the Internet Archive
in 2011 with funding from

Massachusetts Board of Library Commissioners and the Institute of Museum and Library Services

THE SCOPE



*Published by the students of the Massachusetts School of Optometry
Boston, Massachusetts*

A Very Merry Christmas and A Happy New Year.

The Scope Staff

THE SCOPE

Presents

Visual Disturbances Without Objective Signs

by William Smith, Opt. D., Boston, Mass.

INTRODUCTION

The optometrist is often confronted with refractive cases in which visual changes of apparently sudden occurrence are the chief complaints. Such visual disturbances may not be accompanied by any other complaints and no objective symptoms may be observed in the course of the examination. Furthermore, in all these conditions, optical correction does not seem to improve sight, and in many instances is contra-indicated. The seriousness of this problem becomes even greater when the reduction of vision becomes apparent soon after an ocular examination during which 20/20 or similar visual acuity has been recorded.

To help such patients properly, the optometrist must try to find the cause or causes, and inasmuch as there are no apparent changes in the fundi, he must assume that these etiological factors are in many instances purely systemic. The resultant ocular symptoms are entirely accidental. The eyes seem to be most vulnerable organs to these metabolic and other chemical processes which are not demonstrable.

In such cases, the case history is of extreme value and importance. While the ophthalmoscope and field studies may disclose nothing significant, judicious questioning of the patient may disclose a good deal. The importance of knowing the patient's immediate and past history; his home and social life, habits, occupation, likes and dislikes, and, whatever else possible, is invaluable. In many cases the ocular symptoms are referred or reflex and their understanding may be instrumental in helping and, oftentimes, in preventing more serious complications.

Whenever complaints of visual disturbances of sudden onset are made, the presence of

ocular pathology must be suspected and looked for either in the fundi or in the media. The absence of visible fundus pathology, nevertheless, doesn't eliminate the presence of some source of reflex irritation. Further tests must be made to uncover that.

There are many causes for these apparently sudden visual disturbances. It is the purpose of this paper to consider those which are relatively more common and to discuss them as briefly and as comprehensively as possible.

The possible causative factors herewith discussed are:

1. Hysteria.
2. Retrobulbar Neuritis.
3. Glaucomatous blur—Simple Glaucoma (non-congestive).
4. Night Blindness.

Under hysteria will be discussed briefly the various ocular manifestations induced by emotional stress, such as anxiety, neurosis, worry, aggravation, extreme anger and the like. Under the classification of retrobulbar neuritis will be included toxic amblyopia, neurogenic causes, early optic neuritis, diabetes, head injuries, migraine and circulatory disturbances. The visual changes found in night blindness will be considered, also differentiation will be attempted between night blindness induced by disturbances in retinal nutrition (idiopathic) and that caused by pigimentary changes in the retina.

Early recognition of glaucoma is imperative for the most effective treatment of the disease. Glaucomatous blur is the earliest symptom of simple glaucoma and its timely recognition may mean the saving of sight. It is, therefore, extremely important that the optometrist be thoroughly familiar with the various mani-

festations of this disease.

HYSTERIA

Visual disturbances in hysteria, while not unduly common, present symptoms of a distinct and unvarying character. Visual anesthesia, oftentimes to a point of blindness, is only one of the symptoms. Anomalies of the intra- and extra-ocular muscles and visual hyperesthesia are frequent manifestations. Inasmuch as hysteria is a mental disruption of a functional nature, all the symptoms seem consistent with the condition. In hysteria organic changes are not known to be present.

Reduction of vision in hysteria may vary from total blindness (simulated blindness) to amblyopia. Both eyes may be affected, or it may be monolateral. The pin-hole disc tends to further reduce vision. It is not uncommon for the patient to recognize motion of an object, but not its form or outline. Moreover, vision is inconsistently variable at one and the same time.

Visual changes in hysteria are in the form of an anesthesia rather than amblyopia. The anesthesia is due to a functional influence exerted upon the cortical centers. Hence, the possibility of correcting hysterical amaurosis by suggestion. Retinal anesthesia may be either complete or partial, it may be unilateral or bilateral. When recovery takes place, it is usually complete, leaving no after-effects upon the ocular structures. In the course of the attack, the retina becomes insensitive to light in a most peculiar variety of forms. This is demonstrated by the inconsistency of the visual fields. The form fields may be either constricted to a point of tubular appearance, or they may remain of normal size. Central vision is usually retained, yet the central fields are often inconsistent and incompatible with the peripheral form fields. The color fields show reversion of colors.

There are usually no fundus changes in hysteria. The media also show no apparent changes. The pupillary reaction to light and accommodation and their size, usually are not affected. However, any change in size is toward dilation.

Hysteria reacts on the ocular muscles as

well as on vision. Anomalies of the accommodation are quite common. They may appear either as spasms or as paralysis, the latter more rarely. Accommodative myopia in hysteria is usually out of proportion to the objective and subjective findings.

The extra-ocular muscles show high degrees of inconsistency. The phorias when measurable, are inconsistent and changeable. The anomalies may vary from a mild phoria to an actual strabismus; from convergence paralysis to a divergence insufficiency rapidly becoming a paralysis, all these taking place during the same examination.

Visual hysteria is more prevalent among women and may occur as an emotional crisis such as anxiety, worry, extreme anger, aggravation and temperamental outburst. The complaint is sudden diminution of vision, often accompanied by asthenopia, excessive lachrimation, photophobia, blepharospasm, and muscae volitantes. Occasionally there is complaint of headache, usually one-sided and neuralgic in character. It may be ophthalmic migraine of hysterical nature which is a frequent occurrence.

Hysteria is regarded as a psycho-motor neurosis in which the morbid mental state is not sufficiently pronounced to require custodial care. All the symptoms are of psychogenic origin and are therefore curable by suggestion. Hysteria may affect any organ of the body. Glasses have little or no effect on improving reduced vision in hysteria.

RETROBULAR NEURITIS

As in hysteria, visual disturbances without observable fundus changes, are early manifestations in retrobulbar neuritis. The explanation for this lies in the portion of the optic nerve involved. In retrobulbar neuritis it is always the orbital portion.

(a) *Toxic Amblyopia:*

All the three types of amblyopia — toxic, congenital and ex-anopsia, have reduced visual acuity as the dominant symptoms. Of these three, this paper concerns itself with the toxic variety because in this type only does *sudden*

reduction of vision occur.

In toxic amblyopia there is gradual diminution of vision, usually both eyes being affected. The complaint is that vision is foggy which is more pronounced in bright light than in the evening. Usually, there are no apparent fundus changes. The form fields are usually normal, but in some instances they may be slightly constricted. The central fields may show enlargement of the blind spot and a relative central scotoma. Changes also take place in the color fields, both central and peripheral. The scotoma for white and blue is smaller than for red and green. The last two named colors are first to disappear.

The pin-hole disc doesn't change vision in toxic amblyopia. Optical correction, likewise, is of little use. The remedy is to remove the cause. Vision tends to return to normal when this is accomplished.

Over-indulgence in tobacco, alcohol, the use of drugs, lead, wood, alcohol and other chemicals, dental and accessory sinus infections, uremia in pregnancy and during the late stages of scarlatina; some synthec products and other factors may be responsible for txc amblyopia.

(b) Neurogenic Causes:

To neurogenic are ascribed those conditions in which the disturbances may be located in some part of the nervous system. Retrobulbar neuritis may be attributed to such causes. Involvement of the opitic nerve among others, may occur in such conditions as multiple sclerosis. In such an event, reduction of vision without fundus changes, may be one of the manifestations.

Extra-ocular muscle involvement is not uncommon. They may appear either as a paresis or an actual paralysis of one or more of the muscles, depending on the seat of the lesion. Because the sclerosis is disseminated, the location of the affection is purely accidental.

The case history of the patient is extremely important. The objective symptoms must be carefully observed. These may be systemic as well as ocular: the slow, scanning voice, with each syllable being pronounced separately, the quick, spastic gait resembling locomotor ataxia

and tremor on attempting voluntary motion. Early bitemporal pallor of the optic disc may be observed and there may be diplopia, either horizontal, vertical or oblique. Nystagmus is not uncommon.

(c) Early Optic Neuritis:

While this condition is not strictly within the scope of this paper because of the early fundus changes which are manifested, these changes are sometimes difficult to differentiate. There may be congestion of the papilla and slight blurring of the disc margins. However, such a picture may be also seen in eye-strain from over-use of the eyes, hyperopia and astigmatism and from insufficient or excessive light. It is also found with inflammations of the deeper portions of the eyeball. Reduction of vision is an early symptom and can not be improved with glasses. The pin-hole disc shows no change in the visual acuity.

Field studies show constriction of the form fields and loss of those for red and green. The blind spots are enlarged. The pupils are sluggish, or may not react at all to light. They may be slightly dilated.

(d) Diabetes:

Visual changes of a most disturbing form may be observed in diabetes. Retinal changes appear late in this condition.

The visual disturbances are evidently due to improper metabolism during which toxic substances are produced, causing auto-intoxication. This condition is similar to nicotine-amblyopia and among diabetics using tobacco, disturbances caused by both may frequently co-exist.

The refractive change in diabetes is toward myopia. It is of variable degree, depending upon the changes in the density of the ocular media. This may call for all too frequent changes in the correction with seldom establishing clear comfortable vision.

(e) Head Injuries:

Indirect injuries to the optic nerve causing changes in vision may be produced by injuries to some part of the skull. In many instances

no fundus changes are noticed immediately. These, however, make their appearance as degeneration sets in.

The loss of sight may vary in intensity. Oftentimes, partial or complete blindness may be the result. A blow or a fall upon the head, or any other severe injury to the skull may be the cause.

(f) Migrane:

Headache is a common symptom of eye-strain which usually disappears with proper optical correction. Migrane, however, doesn't respond to glasses, or to any other treatment, in most instances. It is now being regarded as an allergic condition and in many cases, of unknown cause.

Visual disturbances may be apparent during an attack of migrane. There is marked photophobia, a feeling of vertigo, seeing of scintillating lights which increase rapidly until there is scarcely any sight at all — a scintillating scotoma.

Some patients are aware of an attack coming on. They get prodromal symptoms during which they actually see, what they describe, as "heat waves" — scintillating lights.

The form fields may show homonymous hemianopsia or homonymous quadrant defects which disappear after the migrane has subsided. In many instances, however, no field changes are observed.

There are usually no fundus changes in migrane. Likewise, the pupillary reactions to light and accommodation, are normal. If any change does occur in the pupils, it is toward dilation.

(g) Circulatory Disturbances:

Circulatory disturbances are known to cause changes in visual acuity, which are unaided by glasses. In most cases, however, there are definite ophthalmoscopic signs. There are frequent visual disturbances, of varying degrees, depending largely upon the area involved.

GLAUCOMATOUS BLUR

One of the earliest symptoms of glaucoma, even before there are visible ophthalmoscopic and perimetric signs, is variable reduction of

vision, which glasses do not seem to improve.

In simple glaucoma dimness of vision is an early and, therefore, a highly important diagnostic sign. External symptoms may be absent and there may be no complaint of pain or inflammation. In this stage of glaucoma, the increase of intra-ocular tension sets in very gradually, and unless measured very carefully, may not show evidence of the disease. The tension may appear increased, but not to any considerable degree. Often upon the first examination it may appear as normal, and only after repeated measurements with the tonometer, may any variation be noticed.

Foggy near and distant vision and diminution in the power of accommodation, with subsequent need for stronger near glasses than is necessary for the age, and the presence of rainbow-colored halos around lights, should always excite suspicion of glaucoma.

The subjective symptoms of simple (non-congestive) glaucoma, because of absence of pain and inflammation, consist almost entirely of disturbance of vision. These visual changes also become manifested in constricted peripheral fields and in the central fields, by enlargement of the blind spots. No fundus changes may be observed as long as the intra-ocular tension remains normal.

As the disease becomes progressive, other symptoms become apparent. The cornea may appear somewhat cloudy, the anterior chamber shallow, the pupils dilated with sluggish reaction and there may be cupping of the disc. The form and central fields undergo characteristic changes.

Simple glaucoma always attacks both eyes. Unlike the congestive form, it may occur in young people, men as frequently as women, and in myopic eyes as well as hyperopic.

NIGHT BLINDNESS

By night blindness is denoted a condition in which vision, while good in the daytime, becomes markedly affected at night and in feeble illumination. The extent of the disturbance depends upon the severity of the causative factors.

The patient complains that sight is unim-
(*please turn to page thirteen*)

Senior Segments

by Henry Fine

December and the editor draws ominously near and, recognizing the worthy as our peer, we leap to pen and ink again to carve out five hundred words from the banal turkeys that make up the senior class.

News is scarce and views scarcer but we'll do our best to disturb your rest in letting you know that:

Stan MacGaregill is soon to discard his trusty saddle-bridge frame in favor of a snappy Shuron-Shurset. Our congratulations to Stan and we are pleased that something in practical optics finally appealed to him.

Iventash and his relatives have left fair Belmont for fairer Newton, the Garden City. As we go to press, we learn that a maid resigned from the service of his host because of the presence of the Rhode Island Red. Apparently he's undesirable everywhere.

L. B. Fritz is now the proud possessor of the first volume of Duke-Elder. The volume was bestowed upon L. B. by his opponents in a recent game of Hearts. We can definitely state that Fritz' years at M. S. O. have not been wasted.

Joe Aleo, who may have courage enough not to censor this, has been seen in Quincy at suspiciously late hours and NOT ALONE. She works until 1 A. M. and dislikes a solitary life.

Glickman, Cline, Rice, et al, are cooperating in preventing a group of Cambridge nurses from ever acquiring any need for a Freudian analyst. Good luck, boys!

Brer Falino recently bestowed upon your unsuspecting reporter the somewhat doubtful privilege of riding in the archaic device that bears a Rhode Island license tag. These archaic bones may some day recover. In the meantime, in keeping with the advice of an African witch doctor, we are soaking said bones in 90 proof rum to avoid their becoming brittle.

Ralph Barnard is the proud curator of as fine a collection of tropical fish and animals as can be found north of the Charles River. He

stands ready to share his knowledge and guppies with all honestly interested in the subject.

George Cohen will soon give up the magnificent, green Packard he's been sporting of late. His father, if not already, should soon be on his feet after pneumonia.

Conversations with bookers, musicians and band leaders around town inform us that Fishman toots a "Damn good horn". They weep when he prefers Optometry.

Glickman recently locked bumpers on Boylston Street. Couldn't escape for two hours. . . Berg very quiet. . . . Essex very quiet. . . . Cadort very quiet. . . . Margolskee very quiet. Falino recently escorted our own Maria to the Freshman Dance. Rodman preparing for an AEII convention in December. . . . Rosemarks' wife does all his typing thereby proving that all marriages are not barren or devoid of pleasures. . . . McKenzie is still journeying to Brockton to be with the future Mrs. Mac. . . . Newman and Savoy spent the holiday in Jersey in an effort to increase their allowances. . . . the Wasp yearns for Florida. A postal would not surprise us. . . . Weisman again goes to Worcester and it's not for the ride. . . . Levine still carrying on the fame of Revere and insists he never chews gum. . . . Where is Volovick?

Acme of Asininity: the many southern congressmen who practise Fascism in their home States and preach democracy north of the Mason-Dixon Line.

Advice to the Lovelorn: It has ever been thus.

Advice to others: If you can't get her, somebody else will.

Musical comedy: Sons o' Fun — only fair.

Picture: "Birth of the Blues" — good music.

Book: Sorry. Read none.

The Season's best to one and all despite the fact that wishing won't make it so.

Your faithful scribe

Junior Jests

by Quinn and Gates

With three whole months behind us, the members of the Class of '43 now have quite a number of faint ideas as to what an Optometrist does for a living. In fact, we don't think that there's a man in the class who (after a little practice) couldn't tell the difference between an ophthalmoscope and an ophthalmometer, which just goes to prove that time *does* make changes.

We can remember, not so far back when Joe McDermott had trouble trying to distinguish between a stenopaic slit, a pinhole disc, and an occluder. Have you had any success in finding the principal meridians with an occluder yet? Nothing's impossible Joe.

Now we would like to thank Dr. Green very kindly for locating a true, 20th century (armchair) scientist in our midst. The title goes to our former yawning champ, Norm Saperia. Incidentally, we feel rather proud that this was the first title handed down to the Class of '43. At our first meeting in September we were told that in due time such titles as "Class Clown" and "Class Noisemaker" would be pinned on various members, and with three months gone, the title of "Class (armchair) Scientist" is handed down as Blue Ribbon No. 1. Let's keep up the good work.

Jumping from the scientist side to the practical, we think that George Forman is our A1 practical man. Rumors have it that George is wondering how long we have to go to school before we are presented with the key to those messages in code which we see through the mirror. Don't let that bother you, George. Hal Meyers thinks that they represent New Deal agencies, and Moe Morin thinks that they are nothing more than a flock of old, worn out letters picked up at a discount from some printer.

A short time ago, we mentioned something about the readiness of Bob Kraus to blush, but if you'd like to see a real blush, just watch Vaniotis walk across the room while someone (you know who) sings out "Looooooooie".

We don't know what to think of Rollie Carrier these days. We were told that our so called "Woman Hater" was seen occupying a bench along with Janet Mechanic, one of M. S. O.'s popular Seniors, early one morning in Massachusetts Station. Practicing up for an air raid, Rollie?

Perhaps you've noticed that Chet Turner has been looking just a little on the weary side for the past few weeks, but there's a reason for it. In the interest of all students who live out of town and commute each day, Chet is trying hard to develop a formula to reduce this distance by increasing the index of air to 1.5. Imagine that! When Chet completes this project, "Oiwin" Graubart will be able to walk to

(please turn to page fourteen)

UNIVIS- Welded Rather Than Fused

FOR SHARPER DEFINITION

So painstaking are the successive grinding and polishing stages—so precise is the matching of the Univis countersink blank and composite segment curves—that it is possible to *weld* the contact surfaces with a minimum of heat . . . rather than to fuse them with intense heat. The Newton's Rings Test must be used to check against any infinitesimal variation in curvature. This test shows Univis contact surfaces to be free from spherical aberration and that true curves have been achieved. This advanced technique also results in exact Univis additions . . . and represents one of the secrets of the sharper definition that Univis lenses give to the patient.

Wilson & Halford Optical Co.

387 Washington Street Boston, Mass.
Telephone HUBbard 2770

Thru the Editor's Eyes

Editorial Staff

Editor-in-Chief: JOSEPH M. ALEO

Assistant Editor: DAVID G. ESSEX

Associate Editors: RALPH FRITZ
STEWART MACKENZIE
HAROLD CALDERONE
ERNEST MCVAY

Business Manager: LOUIS UPHAM

News Editors: HENRY FINE '42
JOHN E. QUINN '43
PAUL N. GATES '43
ROBERT LIPPIN '44
ARTHUR VEANER '44
ROBERT J. SAUL '45
HERBERT IVENTASH,
 Omega Epsilon Phi
SIDNEY NEWMAN,
 Pi Omicron Sigma

Sports Editor: MARSHAL V. MARGOLSKEE

Circulation Managers: JOSEPH MITTLEMAN
CLINTON WILSON

Reporters: JANET MECHANIC
STANLEY MACGAREGILL, JR.

Contributing Editors: ARTHUR HARRIS, A. B.
JEROME RUTBERG
RALPH W. BARNARD, JR.
CONRAD A. CADORET
GEORGE M. COHEN

Faculty Adviser: MRS. WILSON

The Dead-line

News items intended for publication in the *Scope* must reach this office not later than the tenth of the month, if intended for the following month's issue. Those arriving after the tenth may be held over by us until the following month.

The Editor Says:

Glasses and Children

It was probably for parents, who have a definite aversion to their children wearing glasses, that Miss Lois E. Dunn wrote in "Hygeia":

I'm a little girl with glasses on
At first it made me sad,
But father told me something
That has truly made me glad.
He says when a girl wears glasses
It shows that someone cares,
And that if there is trouble
That trouble someone shares.
Some eyes, you know, are not made right
And lenses make them better.
They make it so you plainly see
Each tiny word and letter.
So any child with glasses on
Has one who loves him dearly
Since father told me that
I wear my glasses cheerily.

* * * *

Calderone submits a new advantage of a short working distance in skiometry. — In the case of constricted pupils, a short working distance facilitates stroking the back of the patient's neck in an effort to dilate the pupils. If Cal will take the responsibility, yours truly will be glad to follow this new technique with carefully selected patients.

Incandescent Lamps

The tiny tungsten filament of an incandescent lamp gives off light at the highest temperature ordinarily encountered by man, or twice the temperature of molten steel.

Soph Soap

by Arthur Veaner and Robert Lippin

Once aponeurosis a notice was posted on the bulletin board informing us that an article was due over the weekend, so once more we shall present old stuff hashed and rehashed to appear fit to print.

Thanksgiving is over, and with the bird safely tucked away in the breadbasket (stomach to you Amy) we heartily look forward to a long Christmas Vacation of seventeen days. Sambo Schlosberg claims that on November sixth, Christmas could not be seventeen days away if the vacation was seventeen days long, when all the time he didn't know into what kind of conversation he was sticking his nose. At last reports Sambo isn't saying a word. In fact, the only thing he does is roar at Jim Newman. Sometimes I wonder if all we are going through is worth it. Take Sambo for instance. Go ahead — take him!!

Since your beloved reporters combined for the first time in M. S. O.'s literary history to form a successful (?), gruesome, twosome, other aspiring young men, and some old ones too, have copied our style. But do not lose faith in your boys fellow classmates. Can others offer you the latest news about the Yorra Transportation Service? Who offers you the latest telephone numbers, the newest songs, and snappiest jokes? Of course there is only one reservation in this service; there is to be no swearing or vulgarity. The best passenger receives a ticket to the O. H. as a reward. Have they a classmate who dates up the Chemistry teacher's sister and professes to be a chem shark? Do they know any one with the skill Norm Kahnofsky possesses in hearts (pasteboard and otherwise)? Do any of their students (?) have an "in" with the anatomy teacher? The answer is a pure unadulterated "NO!" Once more the Sophs lead and the rest follow — Jack Flodin, and the girl he brought to the Freshman Dance at the Copley Plaza. Mostly the girl!!!

Harmon Pollock holds claim to the throne of chief jitterbug of M. S. O. He won his

crown, a pair of sharp stockings — you know what stockings are — at a dance on Hallowe'en night. He jived to his glory with Urdang's girl. Now, there's a girl who could swing a mean hip. Harmon just said, "Common' snake let's wiggle" and together they won undisputed championship. Drs. Green and Naimais were judges and who can say they were wrong and pass?

The windows in our room offer the best view of Massachusetts Avenue and every opportunity finds the students who are artistically inclined, drawing their attention from lecture to the picturesque scenery. Not that anyone is jealous but cooperate and divulge which window is it?

We keep coming in and out of a fog in Optometry so often the office has put on sale fourty portable electric beams, so that we may find our way into the open. And, when you reach the bright sunlight, what happens? Brother, confidentially you blink. Enough of the more serious side of life and into a gayer atmosphere of Greek letters, compound lenses, acids and hydrocarbons. Or is it that we're just punch drunk.

II now



Color

It has been found that the average person can think of about 35 colors in five minutes, and of these, only 18 will be sufficiently clear or correctly understood so that they can be identified by others. Perhaps people are not so much color blind as color illiterate.

Freshman Foibles

Class-conscious Department:—

PHYSICS CLASS: Greenblatt still insists that it couldn't be gravitational attraction. "What makes it accelerate?" And the difference between rolling and sliding friction is only a matter of phlogiston. . . . Woolf would like to use that surface tension membrane for a hammock and go to sleep on it. Dr. Harris should have said, quote, "We shall have an enlightening second semester," unquote. That's pretty good, Johnny, but that ain't the way I heard it. Th' way I heerd it, one feller says t'other feller, "Saaaay," he says, "give a definition of work." An' t'other feller says, "Finding freshmen at that dance. They all had to go to work!" And did YOU know what Brownian movement was? But there's the bell. RECESS!

MATH CLASS: Snipe your cigs, boys. Two bells. And did you get plus or minus .3?? Why, it was a snap. But those snaps you heard were brains snapping. But enough of Math, and little *is* enough, because that bell's ringing again. Don't burn your nose lighting that snipe. Why didn't I blow the smoke out of that last one. Well, back to Zoo.

ZOOLOGY CLASS: And, children, be sure to bring a nice sharp butcher knife and a pair of hedge shears to the lab next week, because soon you'll be dissecting a dinosaur. Taking the cilia off a paramoecium might be a Thought while Shaving (now chewing up the blade). . . . Woolf thought that the typhlosole in an earth worm's intestine would also make a nice hammock if it were bigger. And whoever thought that a lowly critter like lumbricus terrestris had a supra-pharyngeal ganglion. My, My . . .

And now, gentlemen, it's Thursday morning, and we don't get off at Boylston Street. And if Josephson and Danielian will get out of that record shop, Nauen will get out of the Raymor or Playmor box-office, and the rest of you

bums will come up from the bowling alley (72 — count 'em — alleys), we will adjourn to the —

CHEMISTRY CLASS: Mr. Victor warned you that you would have to study for your next exam. See that you do. What, Greenblatt, you found half your test in your notebook? Well, that will teach you not to write the test out beforehand. — **PERSONAL** — Mr. Victor, a 100% would have been easier to write than a 97%. Honest! (Mr. Vic now wiping off the blade). . . . The F. P. is when yo're skating in the moonlight with your lady love and your skate catches in a crack in the ice and the water clenches its fist and WHAM-MMO! All right — everybody in the lab.

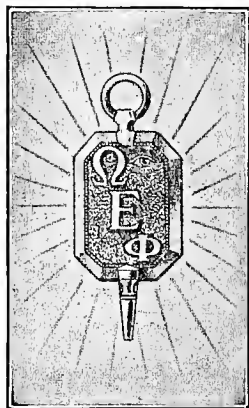
THE MENTIONING OF NAMES DEPARTMENT: Greenberg's got a new suit, and what color is a ghost? Answer: Boo. . . Sammy, Mr. Victor is watching! . . . Greenblatt and Ross are Latin School alumni — the fathers of this column are English men. Ugh. Score: Latin 19, English 0. But we have the answer why E. H. S. lost — many of the players are ex-Latin men. Enough said. I still say we should have a freshman bowling team. . . . Gollinger found some money in the treasury. Hot dog! But Sweet's the treasurer. Oh, well, fifty-fifty. Look out, boys, they even put a prexy of the stock exchange in the clink, and you have no dairy farm to manage. Next time this arduous column comes out, we'll go into the labs and watch Di Caesari find a paramoecium in a certain condition, and when that volvox took one look at Ross eyeing him through the mike, he really started to spin around. But that will all come out later. Can you wait? Oh! — you can. Humph! Five hundred words (500) — we can take a rest, have pleasant dreams, form a spore about ourselves, snore decorously, and see you later. Merry Xmas! in case we forget.

Sincerely,

Papa Saul and Uncle Aaron

Omega Epsilon Phi

by Herbert Iwentash



President
HENRY FINE

Vice President
ROBERT RODMAN

Recording Secretary
STANLEY MACGAREGILL

Corresponding Secretary
DAVID ESSEX

Treasurer
CLINTON WILSON

We are proud to announce that the following students have become pledges to Omega Epsilon Phi:

Ralph W. Barnard, Jr., John Falino, Frank J. Garfi, — Joseph A. Craven, Jr., Irwin Graubart, Victor Laliotis, Sal Lazzero, Harold Meyers, Bill Morin, Maurice Morin, Charles Poulos, John E. Quinn, Paul N. Thornton, Chester A. Turner, Jr., Louis Vaniotis, —

Jack Flodin, Norman Kahanovsky, M. Kofos, Norman I. Pansey, Jack Reardon, Phil Regan, E. J. Whelan, Larry F. Young, Jr.

It is expected that several more will be added to this impressive list before the end of the pledging period. With this potential increase in membership, our chapter will be the largest in the organization.

The fraternity has entertained this group at a local hotel with a very entertaining program. has been outlined.

Rumor has it that our fraternity brothers have been quite successful with the New Jersey, Rhode Island and Massachusetts Boards — Bechwith, Lappin, Toy and Bazelon are those involved.

Better late than never we call your attention to the fact that Bazelon and Rosemark have taken unto themselves brides.

In keeping with the spirit of the day, we extend Season's Greetings to all.

Pi Omicron Sigma

by Sidney Newman



DR. R. H. GREEN, *Grand Chancellor*

SIDNEY NEWMAN, *Chancellor*

STEWART MACKENZIE, *Vice Chancellor*

GEORGE M. COHEN, *Scribe*

PERRY SAVOY, *Treasurer*

ARTHUR WEISMAN, *Sergeant-at Arms*

Π Ο Σ

Another social event of P. O. S. has come and gone. Wearily, yet happily, we recall the annual Christmas dinner dance which took place on the evening of December 12. Enough said as to the joy it brought all that attended.

Due to the fact that before we again turn around, mid-year examinations will be hover-

ing over us. P. O. S. will subdue all social and educational functions till this period has lapsed. Any member of the student body wishing help in his studies is welcome to ask any member of P. O. S. and we will aid him to our fullest ability.

This year with the combined group of Omega Epsilon Phi and Pi Omicron Sigma we are undertaking for the first time an Inter-fraternity Ball. Plans are now well under way and show this to be the most promising dance of the year. The Date? Look for it some time during March.

P. O. S. extends to the entire student body and the faculty, a Merry Christmas and a Happy New Year.

-- Visual Disturbances

(continued from page six)

paired in the daytime, but that in poorly lighted streets at night he must be led about. The same may occur during an eye examination. As long as the test objects are well illuminated, they can be seen well. Any reduction in the illumination, however, seems to cause disproportionate reduction in vision. Slight darkening of the examination room may cause the patient to stumble over objects in the room, whereas the examiner or anyone with normal night vision can get about with perfect ease and comfort.

Idiopathic night blindness is considered a symptom rather than a disease and is usually caused by a disturbance in nutrition and vitamin deficiency of the retina. This condition responds well to dietary treatment. It seems to be more prevalent in men than in women.

Night blindness is also a manifestation of pathology. In retinitis pigmentosa, sine pig-

menta, a condition resembling night blindness is often manifested. The differentiation here, too, is made ophthalmoscopically. In idiopathic night blindness vision remains good throughout life, although there are changes in light diminution. Congenital night blindness may be found in several members of the same family. Glasses do not seem to help night blindness.

The condition discussed in this paper are of a type which are more likely to be seen by an optometric practitioner in the course of his daily practice. By a better understanding of them, he is in position to render his patients a great service. For, not infrequently, is the optometrist the first doctor to be consulted. Very often he has the means at his disposal to observe these abnormal conditions in their incipient stages. By referring the patient promptly for proper care, the optometrist may be instrumental in helping to uncover what may be a serious ailment and possibly save a

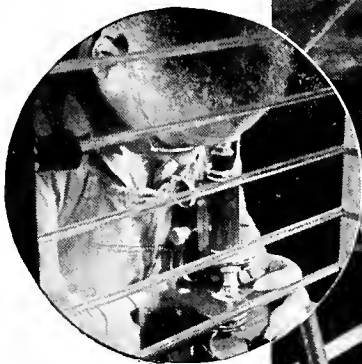
(please turn to page fifteen)

ANALYSIS

EVERY material used in making Shuron WIDESITE Lenses is given a thorough analysis before it is used. The grading of grinding emeries (illustrated) is but one example of how the WIDESITE standard of Quality Beyond Question is maintained in this way.

Shuron
WIDESITE

Season's Greetings



-- Junior Jests

(continued from page eight)

Providence and back for lunch. Keep calculating, Cupie!

We feel sorry for those three Lunchcart boys, Bill Morin, Charlie Poulos, and Vic Laliotis. It has been suggested to them that they eliminate one course from their noon-day meal in order that they may be on time for the one o'clock siesta, but they insist that if they left out one course of that meal, it would mean that they would have to live on two meals per day. You guessed it. Breakfast and Supper.

Twice this term there has been some discussion concerning the member of our Class who was vaccinated with a phonograph needle, and as yet, a guilty finger has been pointed at no one. We'll let that slide, but we'd like to know what type of needle was used to vaccinate Bob Rosenthal. There's one lad who sure swings a mean limb. If you'd ask us, we'd say he was vaccinated with nitro-glycerine and a

pitchfork. And oh, what a woman!!

Going back to professionalism, you should see the professional attire of Pete "Little Caesar" Cohen while he goes about his shop work on Fridays from 3 to 5. You won't mistake him from any angle. He has "Cohen Bros" printed in bright red letters on a white coverall that reaches to his ankles. It's just what Pete needs though. Not only does it keep the knot in his tie from being splattered while he bevels, but it also gives him that coveted "Sharp as a tack" appearance.

It seems almost impossible that fifth columnists should invade our class room, but Harry Neiman sure had our optics instructor worried. Out of a clear sky one morning, Harry wondered if the paper that Dr. Cline was holding was the attendance sheet. Dr. Cline promptly replied that he thought it was, but that it might be some propaganda notice. How true, how true. Often times that sheet is an excellent source of propaganda, right, Harry?

Well, this is just about the end of our rope,

Pledge for 1942

THIS month, as we see the last page of the old calendar about to come down, to be replaced by a new one we pause to express gratitude on the one hand, hope on the other. Gratitude that we have been privileged, through the patronage of our friends, to share with them responsibility for the preservation and care of health and vision—hope that the new year will find us able to serve in this great work with even greater efficiency.

COLONIAL OPTICAL COMPANY
distributors of BAUSCH & LOMB products



but before we go, we have a very rare announcement to make. On Monday, November 17th, our querious Arnelda Levine sat through the entire morning without taking part in any of the discussions. It must be love, but nevertheless, don't let it happen again, Arnel!

In the form of a major personal announcement we would like all of M. S. O. to know that in the near future, Miss Evelyn Adler plans to be pushing a pair of Harlequin frames, now isn't that quaint? When you get your eyes thoroughly examined, Ev, take your Rx over to Bob Kefferstan. He'll provide a Harlequin that will really fit.

And now we feel an esophoria coming on, which (to the uninitiated) is a tendency to turn in, so g'night, pleasant holidays, and lots of luck for the coming year.

Pat

-- Visual Disturbances

(continued from page thirteen)
human life. Early recognition of borderline pathology, may oftentimes arrest and prevent more serious complications.

BIBLIOGRAPHY

- Fuch's Text Book of Ophthalmolgy* — Duane: Sixth ed. Lippincott Co., Philadelphia, Pa.
Diseases of the Eye — May: William Wood & Co., New York, N. Y.
The Eye & Nervous System — Posey & Spiller: Lippincott Co., Philadelphia, Pa.
Principles & Practice of Perimetry — Peter: Lea & Febiger, Philadelphia, Pa.
Dr. William Smith,
735 Little Building.
Boston, Massachusetts.



TRUE VISION
AMERICAN OPTICAL COMPANY

As this holiday season approaches may we extend to you our cordial wish for every success and happiness throughout the coming year.

True Vision eventually will bring true appreciation of the professional knowledge and skill required in examining, refracting, and prescribing and/or interpreting, fitting and servicing. Glasses will be rightfully thought of as therapeutic devices prescribed when necessary to produce visual efficiency.

At this Christmastide we pledge our continued effort toward creating True Vision the American way.

M. S. O.
PRESIDENT

Ira Mosher
VICE PRESIDENT AND GENERAL MANAGER

E. E. Williams
TREASURER

American Optical Company

Among the Girls

by Janet Mechanic

Yours truly certainly needs a memory course trying to recall the varied activities "among the girls"!

Take, for example, Miss Glamour Girl of 1942 — none other than our own Miss Evelyn who has certainly been starting flames in many a heart lately. She's been receiving notes from here, there, and everywhere from many unknown admirers who have been trying to make her acquaintance.

And then, of course, we have our little Miss Font whose presence at all the school affairs this year has added a certain something to the

atmosphere. I understand she's been keeping well in practice with her congas and rhumbas and has been frequenting many of our downtown night spots enjoying her native music.

Amelia, too, as usual, has been busy entertaining her many admirers and on her last trip home she was accompanied by Maria where they both were busy from early morning trying to give everyone a little of their time.

Thanksgiving vacation kept Miss Levine busy hurrying in and out of her formal attire — and to complete the picture, yours truly has just been kept busy!

"Have You Heard"

by Marshall V. Margolskee

That M. S. O.'s basketballers had their first formal practice-session on November 28, at which time they scrimmaged against the highly experienced Harvard Medical School hoopsters. This drill took place at Harvard, in beautiful Vanderbilt Hall. The "young physicians-to-be" had been playing together as a team for three weeks before our ball club met them on the court, and because of this, M. S. O.'s stalwarts were no match for the medicos. Harvard outplayed the "embryonic optometrists" to the tune of about twenty points.

That during this session at Vanderbilt Hall various combinations were tried and all men out for the team were given equal opportunities to display their abilities. All the candidates played well and it was clearly visible that a good club will result after these men are allowed to work together a few more times. The net men are in very good physical con-

dition as was demonstrated by their fast, steady performance. After the scrimmage the only complaints received had to do with two or three blistered feet and one bruised side.

That by the time you read this column, M. S. O.'s basketball team will have inaugurated its 1941 - '42 season. The first game will have been played, December 3, against Babson Institute. And we all hope that it was a win!

That as far as is now known all games this year are to be played away from home. This fact makes it a little more difficult for our ball players. It would be a good thing if more students made an attempt to witness these games and thus lend their moral support to a group of perspiring athletes.

See you at the next game, huh?

M. "Vic" M.

